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SF Roth, J Mattis - Proceedings of the SIGCHI conference on Human factors in ..., 1990 - portal.acm.org ... The nature of the ordering, relationship among a ... might be grouped separately from data unrelated to ... cost relation is a functional dependency, mapping from each ...

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L Popa, Y Velegrakis, RJ Miller, MA Hernandez, R ... - ... of the International Conference on Very Large Data Bases ( ..., 2002 - csri.toronto.edu

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## Interactive maps for visual data exploration - group of 2 »

GL ANDRIENKO - International Journal of Geographical Information Science, 1999 - Taylor & Francis ... a user only selects one or more data variables (table ... responds with a list of map presentations that ... the case of several variables, to relationships among them ... Cited by 171 - Related Articles - Web Search - BL Direct

## Array variable transformation system employing subscript table mapping to scalar loop indices - group of 3 »

M Lai, JL Ng. JF Shaw - US Patent 5,485,619, 1996 - Google Patents ... ifthe array definition/ use relationship data indicate that the ... cases of difficult and inefficient data dependency. ... position Technique for Mapping Nested Loops ... Cited by 17 - Related Articles - Web Search

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I Dey - 1993 - books.google.com

... 182 12.6 A 'chain' of causal links in the data 183 12.7 ... information 193 13.2 Map of relationship between two concepts 204 13.3 ...

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EF Codd - Proc. IFIP Congress, 1974 - informatik.uni-trier.de

... Michael D. Soo: Extending Existing Dependency Theory to ... Procedures, Caching and Views

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RJA Buhr, RS Casselman - 1996 - usecasemaps.org

... Use Case Map Documentation ... themselves the changed method whenever there is a data change that ... (The actual protocols provided for the dependency mechanism are ...

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Design, construction, and application of a generic visual language generation environment

- group of 8 »

K Zhang, DQ Zhang, J Cao - IEEE Transactions on Software Engineering, 2001 - doi.ieeecs.org ... that removes the **dependency relationship** between ViewController ... diagram, directions,

distances, data and control ... The mapping relationships between an abstract ...

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e MelanoBase: An Online Locus-Specific Variant Database for Familial Melanoma - group of 2 »

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Contracts: specifying behavioral compositions in object-oriented systems - group of 2 » R Helm, IM Holland, D Gangopadhyay - Proceedings of the European conference on object-oriented ..., 1990 - portal.acm.org

... variable, parameter or global data structure is ... ter defines a behavioral dependency between a Parent ... This mapping is specified through conformance declarations ... Cited by 419 - Related Articles - Web Search - Library Search

Scenario-based modeling and its applications - group of 5 »

X Bai, WT Tsai, R Paul, K Feng, L Yu - Object-Oriented Real-Time Dependable Systems. 2002.(WORDS .... 2002 - ieeexplore.ieee.org

... in terms of classes and their **relationships** including generalization, association, and **dependency** [3]. In ... Figure 6. An example of **data mapping** ...

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Dynamic interpretations in translucent patches: representation-based applications A Kramer - Proceedings of the workshop on Advanced visual interfaces, 1996 - portal.acm.org ... the application data and semantic operations, the view contains a mapping of that ... Some dependency mechanism allows the view to update when the data in the ... Cited by 4 - Related Articles - Web Search

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R Johnson - Computer, 2005 - ieeexplore.ieee.org

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An algorithm for Bayesian belief network construction from data - group of 9 » J Cheng, DA Bell, W Liu - Proceedings of Al & STAT'97, 1997 - cs.ualberta.ca ... The result of this phase is an I-map. ... number of CI tests among the three data sets is ... to the difference in the obviousness of dependency relationships of the ... Cited by 62 - Related Articles - View as HTML - Web Search

Feature-oriented engineering of PBX software for adaptability and reuseability - group of 4 » KC Kang, S Kim, J Lee, K Lee - Software Practice and Experience, 1999 - doi.wiley.com ... that supplement the Feature Diagram with mutual dependency and mutual exclusion relationships. ... Type must be selected together with the Data-Call feature. ... Cited by 27 - Related Articles - Web Search - BL Direct

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Enforcing strict model-view separation in template engines - group of 14 »

TJ Parr - Proceedings of the 13th international conference on World ..., 2004 - portal acm.org
... Instead the server must map URLs to a chunk of code ... that it should not alter the model nor process data. ... powerful, but there is a direct relationship between a ...

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<u>Design Patterns with Use Case Maps: A Case Study in Reengineering an Object-Oriented Framework - group of 4 »</u>

RJA Buhr, RS Casselman, TW Pearce - jucmnav.softwareengineering.ca ... in Figure 3 the model-to-view AND fork pinpoints a place where Smalltalk's **dependency** mechanism could be ... Figure 3: AModel-View-Controller Use Case **Map** ... **Data** 2 ... Cited by 10 - Related Articles - View as HTML - Web Search

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1 Model-view-controller and object teams: a perfect match of paradigms

,

Matthias Veit, Stephan Herrmann

March 2003 Proceedings of the 2nd international conference on Aspect-oriented software development AOSD '03

Publisher: ACM Press

Full text available: pdf(1.23\_MB)

Additional Information: full citation, abstract, references, citings, index terms

From the early days of object-oriented programming, the model-view-controller paradigm has been pursued for a clear design which separates different responsibilities within an interactive application. In contrast to its untyped implementation in Smalltalk, any implementation in a statically typed language involves certain trade-offs which either blur the clear structure, destroy the intended independence, or introduce undue administrative overhead. Each alternative creates a different caricature ...

**Keywords**: GUI design, a-posteriori integration, collaborations, composition, evaluation, programming language

2 Introducing application design and software engineering principles in introductory CS courses: model-view-controller Java application framework



Scot F. Morse, Charles L. Anderson

December 2004 Journal of Computing Sciences in Colleges, Volume 20 Issue 2

Publisher: Consortium for Computing Sciences in Colleges

Full text available: pdf(361.90 KB) Additional Information: full citation, abstract, references

This paper presents an approach for introducing application design and software engineering principles early in the CS curriculum. When courses are taught in a language such as Java, programming labs may involve writing a complete application or applet. In these cases it is possible to introduce notions of software engineering principles alongside a topic such as object-oriented design. This paper presents a simple application framework in Java that follows a Model-View-Controller design and tha ...

3 STEM: an IC design environment based on the Smalltalk model-view-controller



construct

E. F. Girczyc, T. Ly

October 1987 Proceedings of the 24th ACM/IEEE conference on Design automation DAC '87

Publisher: ACM Press

Full text available: 常 pdf(1.10 MB)

Additional Information:  $\underline{\text{full citation, abstract, references, citings, index}}$ 

terms

STEM (SmallTalk Environment of Module design) is an IC design environment written in Smalltalk aimed at integrating design automation tools with manual design. STEM is based on the Smalltalk model-view-controller concept. Each cell in the database is represented by a single Smalltalk class. This serves as the "model" and encapsulates all (permanent) information about the cell. Different design representations of the single model are achieved by calculating views which are strict ...

4 Implementing the model-view-controller paradigm in Ada 95

📤 Jodene M. Sasine, Raymond J. Toal

November 1995 Proceedings of the conference on TRI-Ada '95: Ada's role in global markets: solutions for a changing complex world TRI-Ada '95

Publisher: ACM Press

Full text available: pdf(1.10 MB) Additional Information: full\_citation, references

5 Refactoring model-view-controller

Stuart Hansen, Timothy V. Fossum

October 2005 Journal of Computing Sciences in Colleges, Volume 21 Issue 1

Publisher: Consortium for Computing Sciences in Colleges

Full text available: 🔁 pdf(479.32 KB) Additional Information: full\_citation, abstract, references, index terms

Model-view-controller (MVC) is an important architectural design pattern that frequently does not receive the attention it deserves. It is generally treated as a prescriptive design pattern, where students are taught to use three different categories of objects to construct GUI programs. There are subtle and important aspects of MVC that anyone developing GUIs should know. We approach these issues in our classes by taking relatively simple GUI programs and refactoring them. Our emphasis is on ex ...

6 An event-driven model-view-controller framework for Smalltalk

Y.-P. Shan

September 1989 ACM SIGPLAN Notices, Conference proceedings on Object-oriented programming systems, languages and applications OOPSLA '89, Volume 24 Issue 10

Publisher: ACM Press

Full text available: pdf(596.60 KB)

Additional Information: full citation, abstract, references, citings, index terms

objects built under both polling and event-driv ...

The Smalltalk Model-View-Controller (MVC) user interface paradigm uses polling for its input control. The polling loops consume CPU cycles even when the user is not interacting with the interface. Applications using Smalltalk as their front-end often suffer unnecessary performance loss. This paper presents a prototype event-driven MVC framework to solve these problems. A solution to the compatibility problem is also provided to allow interface

7 Software design, languages and systems: Customizing model-view-controller design

pattern for Web controlled household appliances and devices
Stefan Dimov, Vikas Vyas, Mike Schardt, Abdullah Faruque, Susrutha Narla, Haihua Fu
March 2005 Proceedings of the 43rd annual Southeast regional conference - Volume
2 ACM-SE 43

Publisher: ACM Press

Full text available: 🔁 pdf(564.99 KB) Additional Information: full citation, abstract, references, index terms

The tendency is that in the next few years the number of networked home appliances will increase. These appliances will be accessed remotely either directly or through a home gateway. Many different manufacturers produce home appliances using different hardware platforms. At the same time, the user interface and the logical operation of appliances of the same class are the same to some extend, even when the appliances are produced from different manufacturers. This paper presents generalized syste ...

Keywords: design patterns, graduate, software engineering

MoDE: a UIMS for Smalltalk



Yen-Ping Shan

September 1990 ACM SIGPLAN Notices, Proceedings of the European conference on object-oriented programming on Object-oriented programming systems, languages, and applications OOPSLA/ECOOP '90, Volume 25

Issue 10

Publisher: ACM Press

Full text available: pdf(1.18 MB)

Additional Information: full citation, abstract, references, citings, index

While the Model-View-Controller (MVC) framework has contributed to many aspects of user interface development in Smalltalk, interfaces produced with MVC often have highly coupled model, view, and controller classes. This coupling and the effort required to use MVC make user interface creation a less effective aspect of Smalltalk. The Mode Development Environment (MoDE) is a user interface management system (UIMS) which addresses the above issues. MoDE is composed of two major com ...

From dated to dynamic: a campus newsletter unfolds as a web service Kevin W. Bishop, Arlen Johnson, Deb Wentorf



November 2002 Proceedings of the 30th annual ACM SIGUCCS conference on User services SIGUCCS '02

Publisher: ACM Press

Full text available: pdf(155.85 KB)

Additional Information: full citation, abstract, references, citings, index

To answer many and disparate needs in campus web services at Rensselaer Polytechnic Institute, a unit of the Division of the Chief Information Officer, has developed an application that separates the strata of personnel involved in building and maintaining dynamic, high profile web sites. By separating the roles of content providers, web designers, and system programmers, each is allowed to contribute their expertise and expend their energies proficiently without unduly interrupting the work of ...

Keywords: J2EE, Java, RPI, Rensselaer Polytechnic Institute, The Kiosk, campus publication, customer service, help desk, news services, newsletter, open-source, web application, web site

10 Electronic maneuvering board and dead reckoning tracer decision aid for the officer of the deck



Kenneth L. Ehresman, Joey L. Frantzen

September 2001 ACM SIGAda Ada Letters, Proceedings of the 2001 annual ACM SIGAda international conference on Ada SIGAda '01, Volume XXI Issue 4

Publisher: ACM Press

The U.S. Navy currently bases the majority of our contact management decisions around a time and manning intensive paper-based Maneuvering Board (MOBOARD) process. The use of Maneuvering Boards is a perishable skill that has a steep learning curve. In order to overcome inherent human error, it is not uncommon to have up to four people simultaneously involved in solving just one maneuvering problem. Additional manning requirements are involved on many Naval Ships in order to accuratel ...

Keywords: Contact Avoidance, GNAT, GtkAda, Maneuvering Board, Model-View-Controller, Navigation, Officer of the Deck Aid, U.S. Navy

Ralph E. Johnson

May 1997 ACM SIGSOFT Software Engineering Notes, Proceedings of the 1997 symposium on Software reusability SSR '97, Volume 22 Issue 3

Publisher: ACM Press

Full text available: 🛱 pdf(714.31 KB) Additional Information: full citation, references, citings, index terms

12 Structuring graphical paradigms in TkGofer

Koen Claessen, Ton Vullinghs, Erik Meijer

August 1997 ACM SIGPLAN Notices, Proceedings of the second ACM SIGPLAN international conference on Functional programming ICFP '97, Volume 32

Publisher: ACM Press

Full text available: pdf(1.07 MB)

Additional Information: full citation, abstract, references, citings, index

In this paper we describe the implementation of several graphical programming paradigms (Model View Controller, Fudgets, and Functional Animations) using the GUI library TkGofer. This library relies on a combination of monads and multiple-parameter type classes to provide an abstract, type safe interface to Tcl/Tk. We show how choosing the right abstractions makes the given implementations surprisingly concise and easy to understand.

13 Creating host compliance in a portable framework: a study in the reuse of design



Phillip M. Yelland

October 1996 ACM SIGPLAN Notices, Proceedings of the 11th ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications OOPSLA '96, Volume 31 Issue 10

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index

This report describes an experiment carried out at ParcPlace-Digitalk which sought to increase the look-and-feel compliance of portable applications built using the company's Smalltalk-based VisualWorks product. We outline the structure of the current VisualWorks user interface framework, and the precise requirements which the experimental system sought to fulfill. We go on to show how we were able to reuse design patterns from the literature in a generative fashion, to direct the evoluti ...

14 Web site engineering: Enforcing strict model-view separation in template engines

Terence John Parr

May 2004 Proceedings of the 13th international conference on World Wide Web WWW '04

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index terms

The mantra of every experienced web application developer is the same: thou shalt separate business logic from display. Ironically, almost all template engines allow violation of this separation principle, which is the very impetus for HTML template engine development. This situation is due mostly to a lack of formal definition of separation and fear that enforcing separation emasculates a template's power. I show that not only is strict separation a worthy design principle, but that we c ...

**Keywords**: model-view-controller, template engine, web application

15 DDD papers: Domain driven web development with WebJinn Sergei Kojarski, David H. Lorenz



#### October 2003 Companion of the 18th annual ACM SIGPLAN conference on Objectoriented programming, systems, languages, and applications OOPSLA '03

Publisher: ACM Press

Full text available: 管 pdf(266.32 KB)

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Web application development cuts across the HTTP protocol, the client-side presentation language (HTML, XML), the server-side technology (Servlets, JSP, ASP, PHP), and the underlying resource (files, database, information system). Consequently, web development concerns including functionality, presentation, control, and structure crosscut, leading to tangled and scattered code that is hard to develop, maintain, and reuse. In this paper we analyze the cause, consequence, and remedy for this cros ...

**Keywords**: JSP, adaptability, aspect-oriented programming (AOP), crosscutting concerns, dynamic pages, generative programming, inter-crosscutting, intra-crosscutting, model-view-controller (MVC), reusability, scattering, struts, tangling, web application, web development, web programming

16 Experience reports: process analysis and improvement: Towards systematic recycling of systems requirements

Nadine Heumesser, Frank Houdek

May 2003 Proceedings of the 25th International Conference on Software Engineering ICSE '03

Publisher: IEEE Computer Society Full text available: 常 pdf(926.87 KB)

Additional Information: full citation, abstract, references, index terms

Many (technical) systems are not developed from scratch but as an evolution of existing systems. Consequently, a large portion of the system requirements employed can be recycled when building the next version of the product. Usually, this recycling step is performed unsystematically, i.e. simply by copying and modifying complete requirements documents. In this paper, we present in a case study a lightweight requirements recycling approach which evolved from observations and concrete needs of pro ...

17 A unified component framework for dynamically extensible virtual environments

, Andrzej Kapolka, Don McGregor, Michael Capps

September 2002 Proceedings of the 4th international conference on Collaborative virtual environments CVE '02

Publisher: ACM Press

Full text available: pdf(129.03 KB)

Additional Information: full\_citation, abstract, references, citings, index terms

If large-scale shared virtual worlds are to be established on the Internet, they must be based on technologies that allow them to adapt, scale, and evolve continuously-that is, without their being taken offline. In the course of designing NPSNET-V, an architecture intended to satisfy these criteria through component-based dynamic extensibility, the authors recognized the need for a consistent, unified component framework. This framework, which they implemented in Java™, allows one to const ...

**Keywords**: Java, XML, component-based architectures, dynamic extensibility, networked virtual environments

18 An approach to support automatic generation of user interfaces

Prasun Dewan, Marvin Solomon October 1990 **ACM Transactions on Programming Languages and Systems (TOPLAS)**,

Volume 12 Issue 4

Publisher: ACM Press

Full text available: 完 pdf(3.55 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

In traditional interactive programming environments, each application individually manages its interaction with the human user. The result is duplication of effort in implementing user interface code and nonuniform—hence confusing—input conventions. This paper presents an approach to support automatic generation of user interfaces in environments based on algebraic languages. The approach supports the editing model of interaction, which allows a user to view all appli ...

19 Pattern categories: a mathematical approach for organizing design patterns Saluka R. Kodituwakku, Peter Bertok

June 2003 Proceedings of the 2002 conference on Pattern languages of programs - Volume 13 CRPIT '02

Publisher: Australian Computer Society, Inc.

Full text available: 🛱 pdf(558.34 KB) Additional Information: full citation, abstract, references, index terms

We describe mathematical structures in existing pattern or ganization methods and introduce a new organization method based on those mathematical structures. This method organizes patterns into related groups called pattern categories by structuring them according to mathematical structures. Our method assists users to find a set of patterns that can be collectively applied to solve complex design problems. Furthermore, it assists to find alternatives for such patterns. Thus this method facilita ...

**Keywords**: category theory, design pattern, graph theory, pattern category, pattern language

20 Second international workshop on model driven web engineering (MDWE'06):

Pattern-based development of user-friendly web applications Ina Wentzlaff, Markus Specker

July 2006 Workshop proceedings of the sixth international conference on Web engineering ICWE '06

Publisher: ACM Press

Full text available: 党 pdf(274.96 KB) Additional Information: full citation, abstract, references

Using patterns to preserve common problem-solving knowledge is a very popular approach. Each computer science community applies its own techniques to document engineering principles for the handling of recurring software development questions using patterns. Thus various pattern collections were evolved for dealing with specific problems of the respective community. As a result comparable patterns or redundant pattern descriptions exist in different collections leading unintentionally to a "rein ...

**Keywords**: design patterns, human-computer interaction, problem frames, software engineering, usability

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